



This cross-sectional view illustrates the internal structure of the liquid crystal display device. The device is divided into three main regions: an image display section (18), an image non-display section (20), and a seal portion (16). The image display section (18) contains a series of subpixels labeled R, G, and B, which are part of a liquid crystal layer (24) sandwiched between a substrate (2) and a counter substrate (62). The image non-display section (20) contains a large circular opening (22) for a light source or backlight. The seal portion (16) is located at the right end of the device and contains a textured area (58) representing a seal or adhesive. Various other components are labeled, including a top layer (26), a bottom layer (28), and a central layer (54). The thickness of the liquid crystal layer is indicated as t1, and the thickness of the counter substrate is indicated as t2. The overall device is shown in a cross-section with a dashed line indicating the boundary between the image display section and the image non-display section.

This cross-sectional view illustrates the internal structure of the display device. It is divided into three main regions: an **IMAGE DISPLAY SECTION** (width 18), an **IMAGE NON-DISPLAY SECTION** (width 20), and a **SEAL PORTION** (width 16). The device consists of a top substrate (2) and a bottom substrate (4). In the image display section, a series of subpixels (10) are formed between the substrates, each containing a color filter (32) and a liquid crystal layer (34). The subpixels are labeled R, G, B, R, G, B. A vertical arrow (t3) indicates the thickness of the liquid crystal layer. In the image non-display section, the subpixels are replaced by a different structure (54). The seal portion (58) is located at the right edge of the device, where the substrates are sealed together. A vertical arrow (t4) indicates the thickness of the top substrate in the seal portion.

FIG. 3

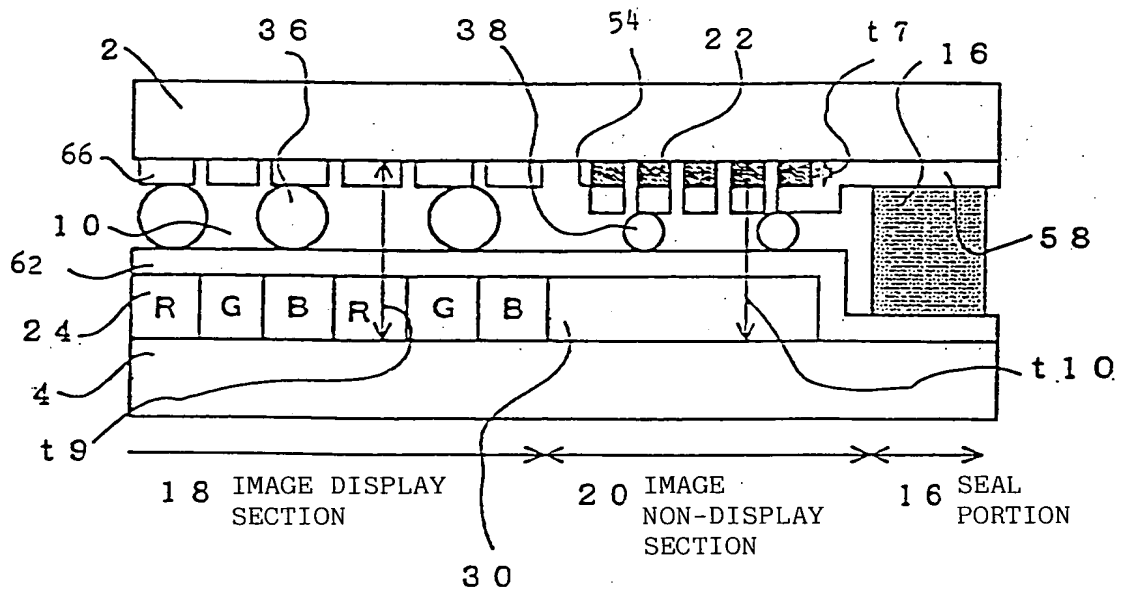


FIG. 4

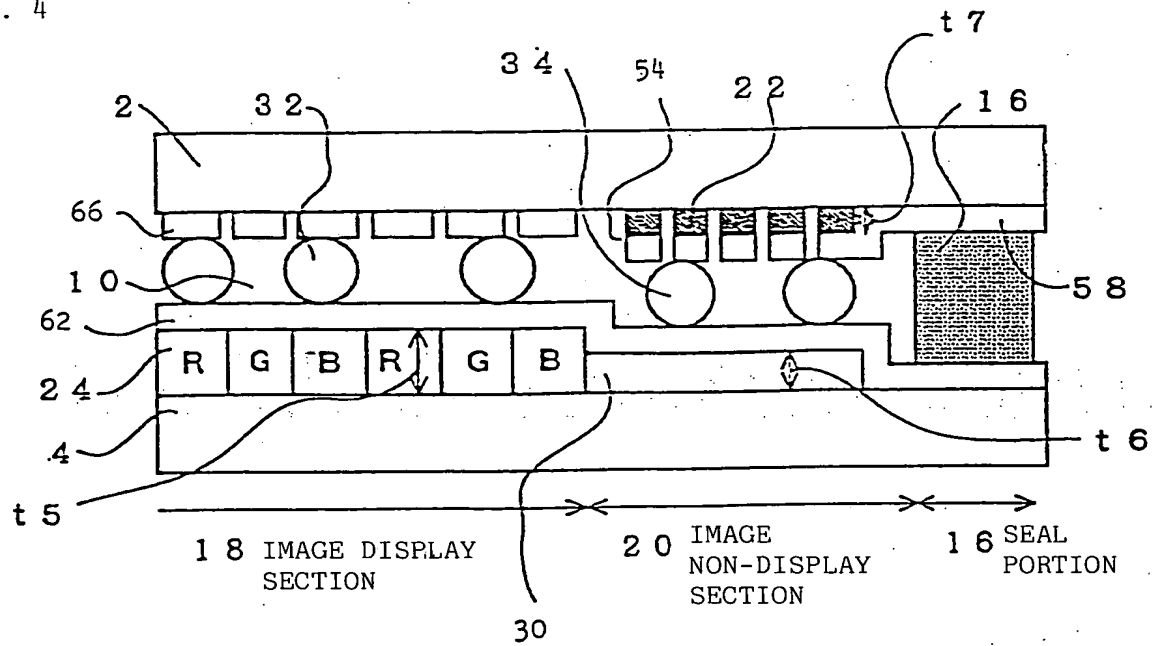


FIG. 5

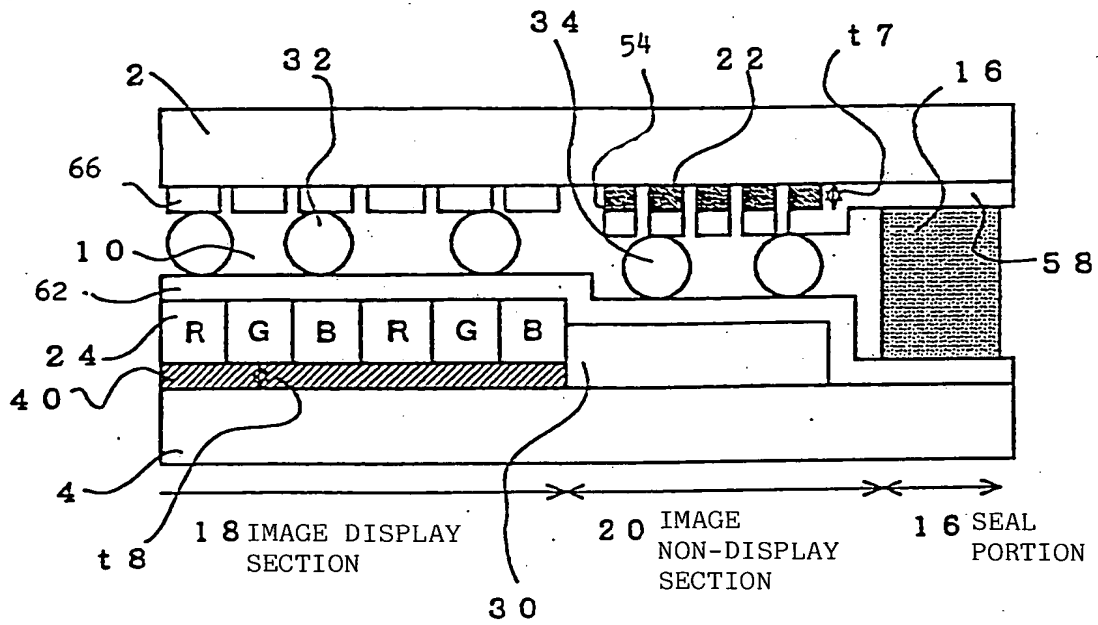


FIG. 6

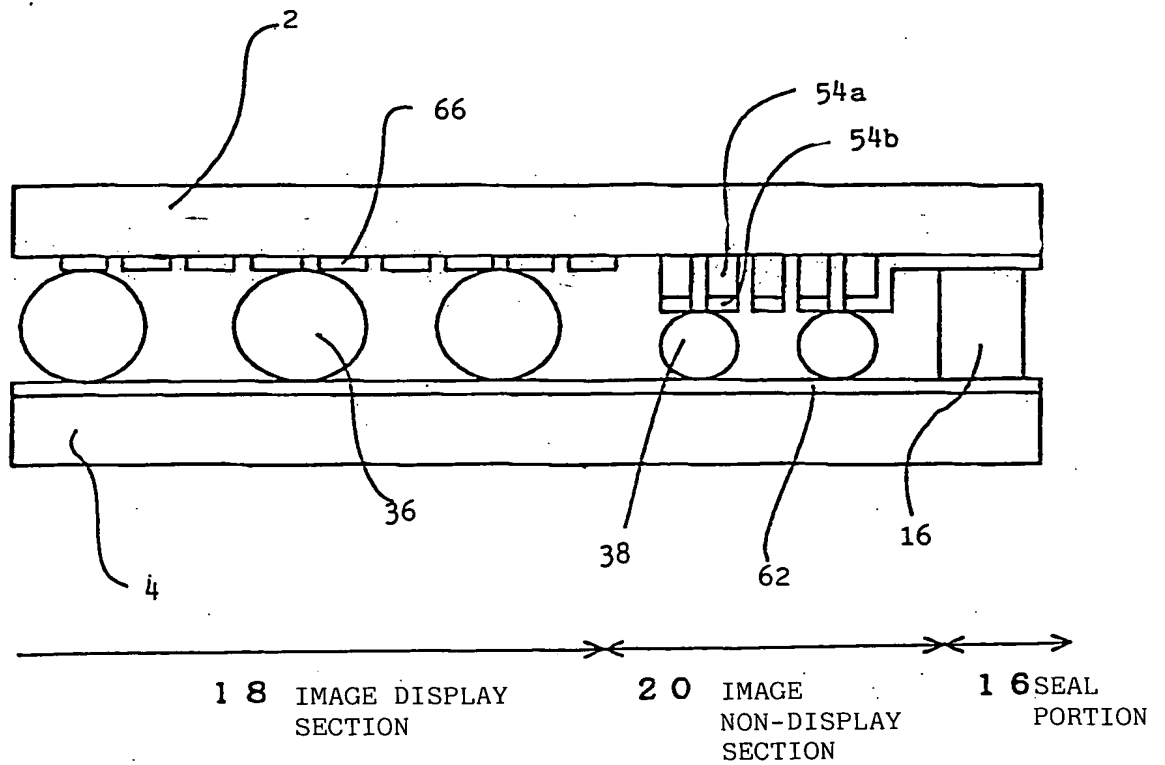


FIG. 7

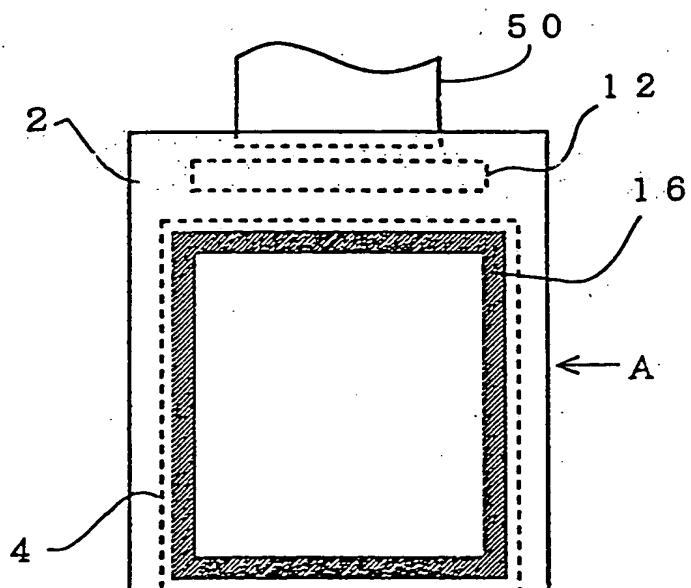


FIG. 8

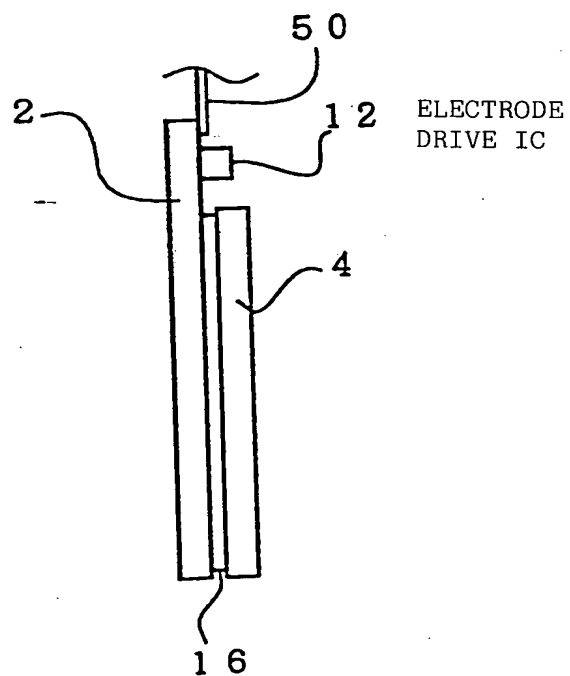


FIG. 9

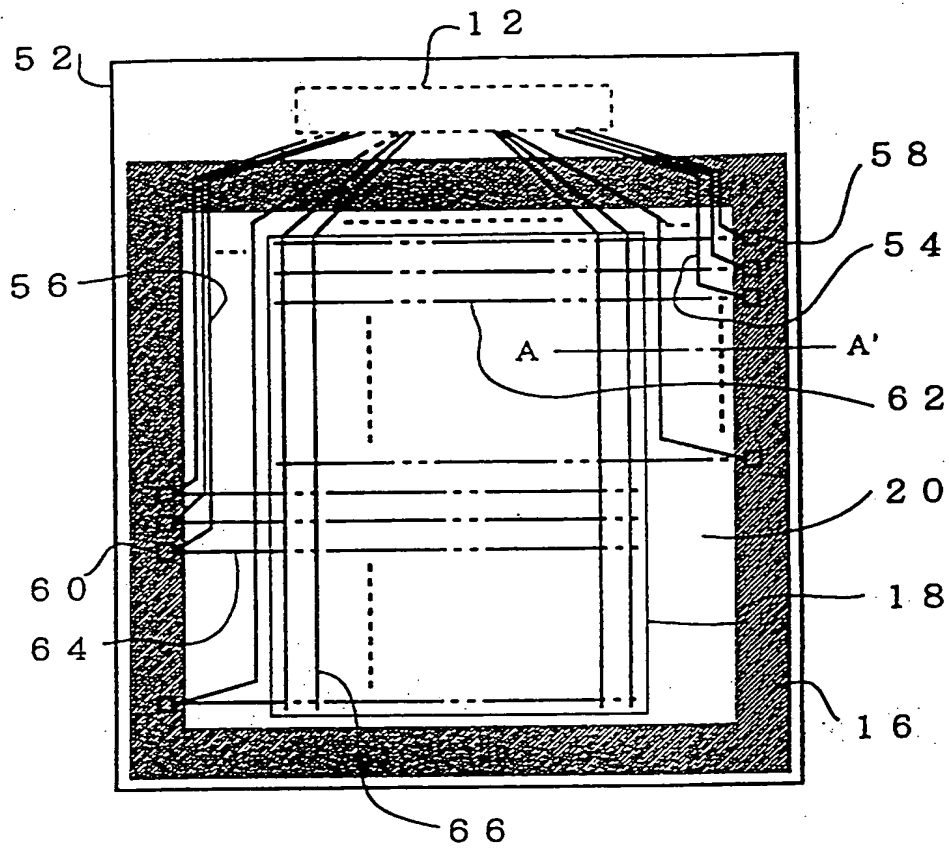


FIG. 10

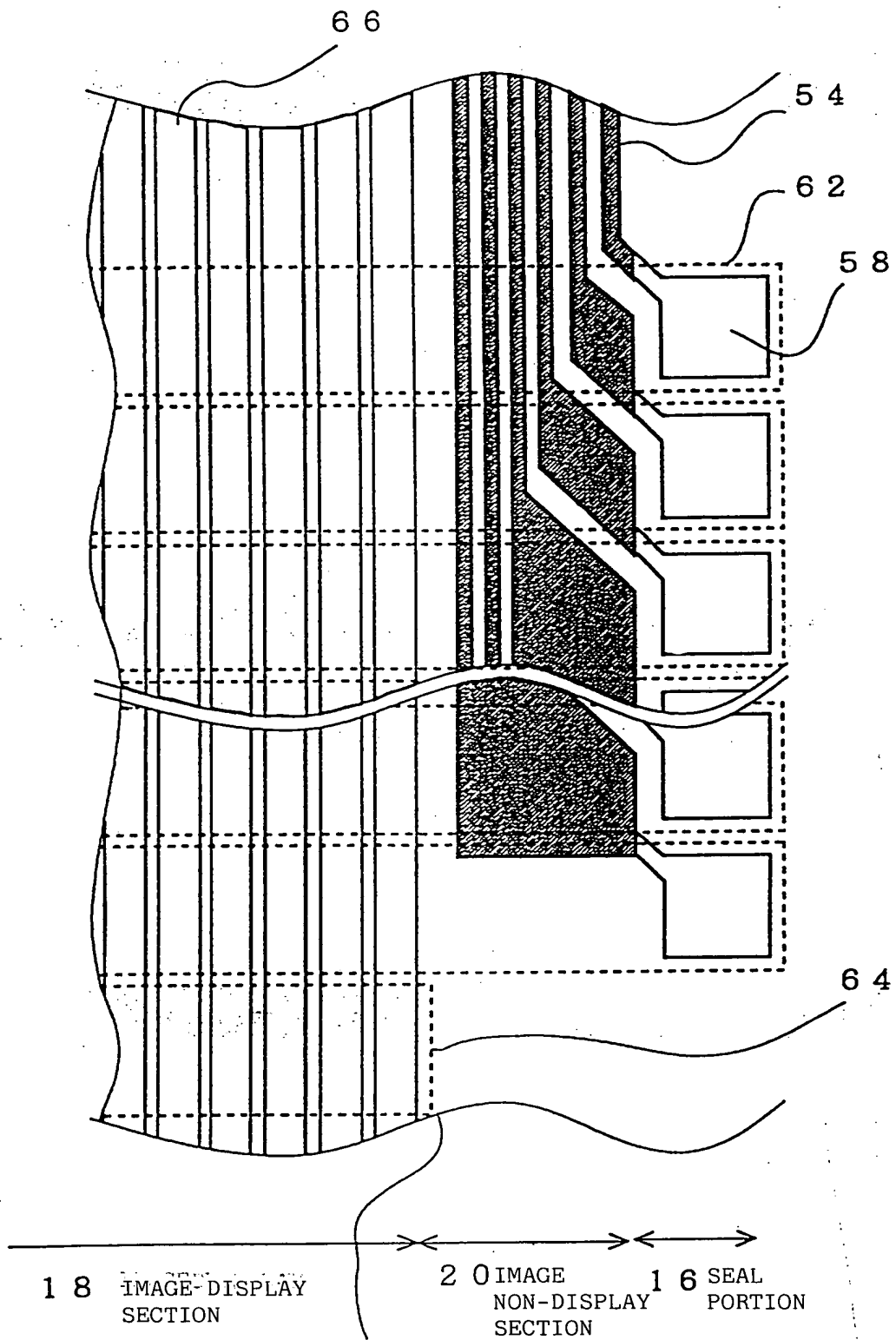


FIG. 11

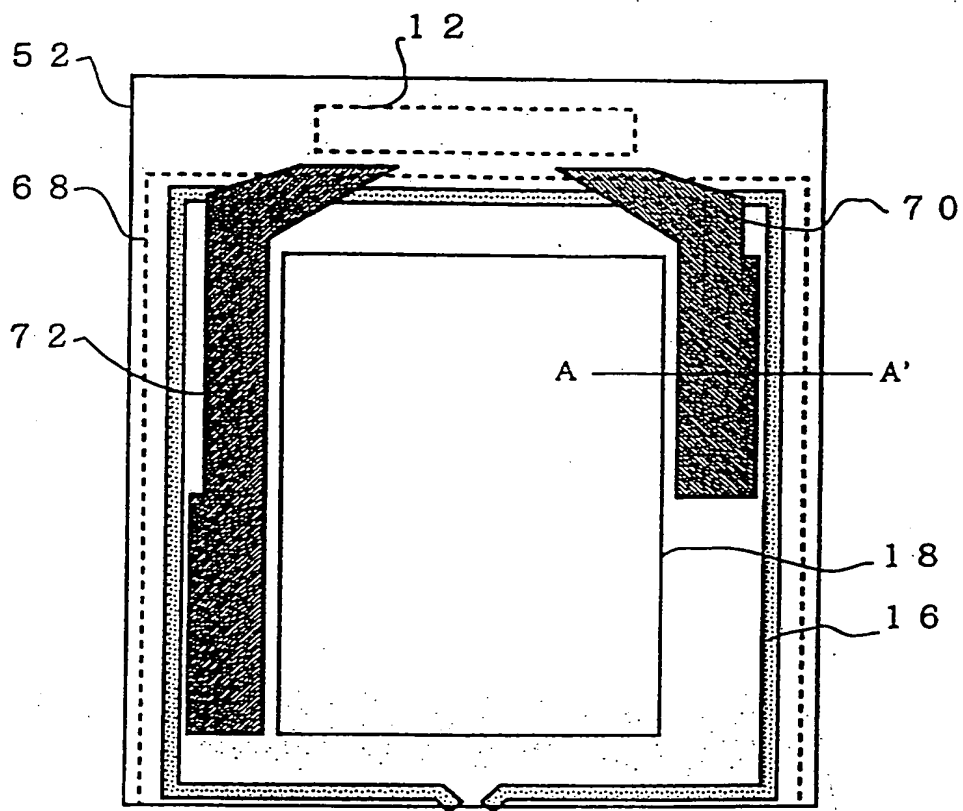


FIG. 12

